

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A non-transitory computer readable medium comprising:

a plurality of pieces of sequentially correlated video image data to be processed sequentially; and

stereoscopic parameters for converting a video image into a stereoscopic image having disparity between left and right eye images that creates a perception of depth, each of ~~which is the stereoscopic parameters~~ associated with each of the plurality of pieces of sequentially correlated video image data.
2. (Currently Amended) A non-transitory computer readable medium comprising:

a plurality of pieces of sequentially correlated video image data to be processed sequentially; and

sub-picture data to be combined with each of the plurality of pieces of sequentially correlated video image data, wherein the sub-picture data contains stereoscopic parameters for converting a video image into a stereoscopic image having disparity between left and right eye images that creates a perception of depth.
3. (Previously Presented) The non-transitory computer readable medium according to Claim 1, further embedded with a program for causing a computer to execute a stereoscopic imaging process effecting the stereoscopic parameters on the sequentially correlated video image data.

4. (Previously Presented) A stereoscopic parameter embedding apparatus comprising:

a video image input unit operable to input a plurality of pieces of sequentially correlated video image data to be processed sequentially;

a parameter input unit operable to input stereoscopic parameters for converting a video image into a stereoscopic image, each parameter being associated respectively with each of the plurality of pieces of sequentially correlated video image data;

a converter operable to convert each of the input stereoscopic parameters into binary data; and

an embedding unit operable to embed bar-code image data corresponding to the binary data in each of the plurality of pieces of sequentially correlated video image data.

5. (Previously Presented) A stereoscopic parameter embedding apparatus comprising:

a sub-picture input unit operable to input sub-picture data to be combined with each of a plurality of pieces of sequentially correlated video image data to be processed sequentially;

a parameter input unit operable to input stereoscopic parameters for converting a video image into a stereoscopic image, each parameter being associated respectively with each of the plurality of pieces of sequentially correlated video image data;

a converter operable to convert each of the input stereoscopic parameters into binary data; and

an embedding unit operable to embed bar-code image data corresponding to the binary data in each of the pieces of sub-picture data.

6. (Previously Presented) The stereoscopic parameter embedding apparatus according to Claim 5 further comprising:

a video image input unit operable to input a plurality of pieces of sequentially correlated video image data to be combined with the sub-picture data; and

a video content data preparing unit operable to prepare video content data of signals, wherein the sub-picture data with the embedded bar-code image data and the video image data input via the video image input unit are multiplexed in accordance with predetermined standards.

7. (Previously Presented) A stereoscopic image reproducer comprising:

a reader operable to read sequentially correlated video image data to be processed sequentially from a non-transitory computer readable medium, the non-transitory computer readable medium comprising the video image data and bar-code image data, the bar-code image data being prepared through conversion of stereoscopic parameters for converting a video image into a stereoscopic image, into binary data;

a bar-code identifying unit operable to identify the bar-code image data embedded in the read video image data;

a parameter extracting unit operable to analyze the identified bar-code image data and extract the stereoscopic parameters;

a stereoscopic processor operable to apply a stereoscopic imaging process on the video image data, the stereoscopic imaging process effecting the extracted stereoscopic parameters on the video image data in which the bar-code image data of the stereoscopic parameters is embedded; and

an output unit operable to output the stereoscopic-process-applied video image data to a display in a predetermined sequence.

8. (Previously Presented) A stereoscopic image reproducer comprising:

a reader operable to read video content data from a non-transitory computer readable medium, the video content data comprising sequentially correlated video image data to be processed sequentially, and sub-picture data to be combined with the video image data and in which bar-code image data is embedded, the bar-code image data being prepared through

conversion of stereoscopic parameters for converting a video image into a stereoscopic image, into binary data;

an extracting unit operable to extract the video image data and the sub-picture data from the read video content data;

a bar-code identifying unit operable to identify the bar-code image data embedded in the extracted sub-picture data;

a parameter extracting unit operable to analyze the identified bar-code image data and extract the stereoscopic parameters;

a stereoscopic processor operable to apply a stereoscopic imaging process on the video image data, the stereoscopic imaging process effecting the extracted stereoscopic parameters on the video image data to be combined with the sub-picture data where the bar-code image data of the stereoscopic parameters is embedded;

a combiner operable to combine the stereoscopic-process-applied video image data with the sub-picture data; and

an output unit operable to output the video image data with the combined sub-picture data to a display in a predetermined sequence.

9. (Original) The stereoscopic image reproducer according to Claim 8, further comprising a bar-code eraser operable to alter the sub-picture data to erase the bar-code image data after the bar-code data is analyzed and the stereoscopic parameters are extracted from the bar-code image data, wherein the combiner combines the video image data with the altered sub-picture data.

10. (Previously Presented) The stereoscopic image reproducer according to Claim 8, further comprising a reproduction system switcher operable to switch between reproduction of video image data for stereoscopic viewing and reproduction of video image data not for stereoscopic viewing, wherein the combiner, if reproduction of video image data for

stereoscopic viewing is selected by the reproduction system switcher, combines the stereoscopic-process-applied video image data with the sub-picture data, and if reproduction of video image data not for stereoscopic viewing is selected by the reproduction system switcher, combines the pre-stereoscopic-process video image data with the sub-picture data.

11. (Previously Presented) A non-transitory computer readable medium embedded with a program that, when executed, causes a computer including: (a) a video image input operable to input a plurality of pieces of sequentially correlated video image data to be processed sequentially, and (b) a parameter input unit operable to input stereoscopic parameters for converting a video image into a stereoscopic image, each of which is associated with each of the plurality of pieces of sequentially correlated video image data, to:

convert each of the stereoscopic parameters input via the parameter input unit into binary data; and

embed bar-code image data corresponding to the binary data in video image data input via the video image input unit.

12. (Previously Presented) A non-transitory computer readable medium embedded with a program that, when executed, causes a computer including: (a) a sub-picture unit operable to input sub-picture data to be combined with each of a plurality of pieces of sequentially correlated video image data to be processed sequentially, and (b) a parameter input unit operable to input stereoscopic parameters for a video image into a stereoscopic image, each parameter being associated with each of the plurality of pieces of sequentially correlated video image data, to:

convert each of stereoscopic parameters input via the parameter input unit into binary data; and

embed bar-code image data corresponding to the binary data in sub-picture data input via the sub-picture input unit.

13. (Previously Presented) A non-transitory computer readable medium embedded with a program that, when executed, causes a computer including: (a) a reader operable to read sequentially correlated video image data to be processed sequentially from a computer readable medium, the computer readable medium comprising the sequentially correlated video image data and bar-code image data, the bar-code image data being prepared through conversion of stereoscopic parameters for converting a video image into a stereoscopic image, into binary data, and (b) a display operable to display a video image, to:

identify the bar-code image data embedded in video image data read by the reader;
analyze the identified bar-code image data to extract stereoscopic parameters;
apply a stereoscopic imaging process to the video image data, the stereoscopic imaging process effecting the extracted stereoscopic parameters on the video image data in which the bar-code image data of the stereoscopic parameters is embedded; and

output the stereoscopic-process-applied video image data to the display in a predetermined sequence.

14. (Previously Presented) A non-transitory computer readable medium embedded with a program that, when executed, causes a computer including: (a) a reader operable to read video content data from a computer readable medium, the video content data comprising sequentially correlated video image data to be processed sequentially, and sub-picture data to be combined with the video image data and in which bar-code image data is embedded, the bar-code image data being prepared through conversion of stereoscopic parameters for converting a video image into a stereoscopic image, into binary data, and (b) a display operable to display a video image to:

extract the video image data and the sub-picture data from the video content data read via the reader;

identify bar-code image data embedded in the extracted sub-picture data;

analyze the identified bar-code image data to extract stereoscopic parameters;

apply a stereoscopic imaging process on the video image data, the stereoscopic imaging process effecting the extracted stereoscopic parameters on the video image data to be combined with the sub-picture data in which the bar-code image data of the stereoscopic parameters is embedded;

combine the stereoscopic-process-applied video image data with the sub-picture data;
and

output the video image data with the combined sub-picture data to the display in a predetermined sequence.

15. (Currently Amended) A method of distributing video content data, comprising:

generating video content data representing signals by a first computer comprising a video image input unit operable to input a plurality of pieces of sequentially correlated video image data to be processed sequentially, a sub-picture input unit operable to input sub-picture data to be combined with each of the plurality of pieces of sequentially correlated video image data, and a parameter input unit operable to input stereoscopic parameters for converting a video image into a stereoscopic image, each of which is associated with each of the pieces of plurality of video image data, the step of generating video content data comprising converting stereoscopic parameters input from the sub-picture input unit into binary data, embedding bar-code image data corresponding to the binary data in sub-picture data input from the sub-picture input unit, and multiplexing the sub-picture data in which the bar-code image data is embedded and video image data input from the video image input unit in conformity with predetermined standards to generate the signals,

storing the video content data in a non-transitory computer readable medium
~~embedded with a program and shipping it;~~

causing the video content data stored in the computer readable medium to be processed by a second computer capable of reproducing the video content data; and

displaying a stereoscopic image of a video image by the second computer comprising extracting the video image data and the sub-picture data from the video content data read from the computer readable medium, identifying the bar-code image data embedded in the extracted sub-picture data, analyzing the identified bar-code image data and extracting the stereoscopic parameters, applying a stereoscopic imaging process to the video image data, the stereoscopic imaging process effecting the extracted stereoscopic parameters on the video image data to be combined with the sub-picture data in which the bar-code image data of the stereoscopic parameters is embedded, combining the stereoscopic-imaging-process-applied video image data with the sub-picture data, and outputting the video image data with the combined sub-picture data to a display in a predetermined sequence.

16. (Currently Amended) A non-transitory computer readable medium comprising:

sequentially correlated two-dimensional video image data; and

stereoscopic parameters for converting a two-dimensional video image into a stereoscopic image having disparity between left and right eye images that creates a perception of depth, the stereoscopic parameters being associated with the sequentially correlated two-dimensional video image.

17. (Previously Presented) A stereoscopic parameter embedding apparatus comprising:

an image input unit operable to input sequentially correlated two-dimensional video image data;

a parameter input unit operable to input stereoscopic parameters for converting a two-dimensional video image into a stereoscopic image;

a converter operable to convert each of the input stereoscopic parameters into binary data; and

an embedding unit operable to embed bar-code image data corresponding to the binary data in the input two-dimensional video image data.

18. (Currently Amended) A stereoscopic image reproducer comprising:

a reader operable to read sequentially correlated two-dimensional video image data from a non-transitory computer readable medium ~~embedded with a program~~, the non-transitory computer readable medium comprising video image data in which bar-code image data is embedded, the bar-code image data being prepared through conversion of stereoscopic parameters for converting a two-dimensional video image into a stereoscopic image, into binary data;

a bar-code identifying unit operable to identify the bar-code image data embedded in the read two-dimensional video image data;

a parameter extracting unit operable to analyze the identified bar-code image data and extract the stereoscopic parameters;

a stereoscopic processor operable to apply a stereoscopic imaging process to the two-dimensional video image data, the stereoscopic imaging process effecting the extracted stereoscopic parameters on the two-dimensional image data in which the bar-code image data of the stereoscopic parameters is embedded; and

an output unit operable to output the stereoscopic-process-applied video image data to a display in a predetermined sequence.

19. (Previously Presented) A non-transitory computer readable medium embedded with a program that, when executed, causes a computer including: (a) an image input unit operable to input sequentially correlated two-dimensional video image data, and (b)

a parameter input unit operable to input stereoscopic parameters for converting a two-dimensional video image into a stereoscopic image, to

convert each of the stereoscopic parameters input via the parameter input unit into binary data; and

embed bar-code image data corresponding to the binary data in two-dimensional image data input via the video image input unit.

20. (Currently Amended) A non-transitory computer readable medium embedded with a program that, when executed, causes a computer including: (a) a reader operable to read sequentially correlated two-dimensional video image data from a non-transitory computer readable medium ~~embedded with a program~~, the non-transitory computer readable medium comprising the sequentially correlated two-dimensional image data in which bar-code image data is embedded, the bar-code image data being prepared through conversion of stereoscopic parameters for converting a two-dimensional video image into a stereoscopic image, into binary data, and (b) a display operable to display an image, to

identify the bar-code image data embedded in the ~~in the~~ two-dimensional image data read by the reader;

analyze the identified bar-code image data to extract stereoscopic parameters;

apply a stereoscopic imaging process on the two-dimensional image data, the stereoscopic imaging process effecting the extracted stereoscopic parameters on the two-dimensional image data in which the bar-code image data of the stereoscopic parameters is embedded; and

output stereoscopic image data generated through the stereoscopic process to the display.